

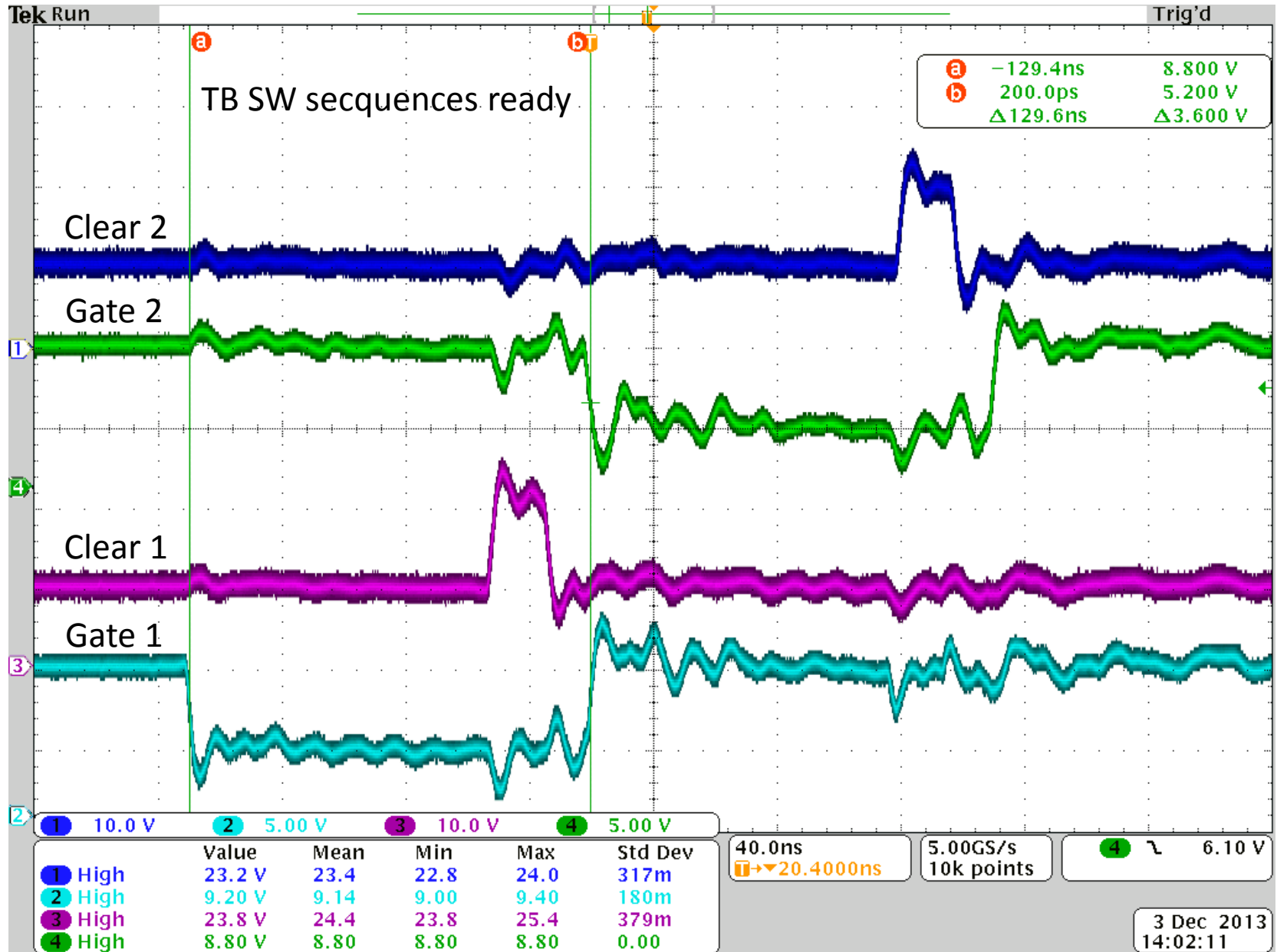
# TB Preparations Brief Update

On behalf of the PXD





# SwitcherB1.8G and DHP0.2





# Hybrid6.0

- Hybrid6.0 produced and waiting for the PXD6
- One being used for PS commissioning

## Hybrid 6.0 (DCDB DHP, SwitcherB ?, large DEPFET Matrix)

| PCB-ID | Location | DHP | DCD | SWITCHER | DEPFET | Comment                                                  |
|--------|----------|-----|-----|----------|--------|----------------------------------------------------------|
| 6.0.01 | HLL      | -   | -   | -        | -      | I06/W04 – ARR_768x160_ST_SD_SCG_Z075 (not assembled yet) |
| 6.0.02 | HLL      | -   | -   | -        | -      | I00/W05 – ARR_768x120_CC_ED_SCG_Z100 (not assembled yet) |
| 6.0.03 | MPP      | -   | -   | -        | -      | dummy board, not populated with electrical components    |
| 6.0.04 | HLL      | -   | -   | -        | -      | dummy board, not populated with electrical components    |
| 6.0.05 | HLL      | -   | -   | -        | -      | J00/W05 – ARR_768x120_CC_PC_Z075 (not assembled yet)     |
| 6.0.06 | LMU      | -   | -   | -        | -      | dummy board, assembled with electrical components        |
| 6.0.07 | MPP      | -   | -   | -        | -      | dummy board, not populated with electrical components    |

- PXD6 populated sensors expected from IZM by the end of the week
- Hybrid6.0 assembly and wire bonding early next week @ HLL
- Sensor and ASICs characterization/optimization @ Bonn

→ Extremely tight schedule

# Ongoing Activities

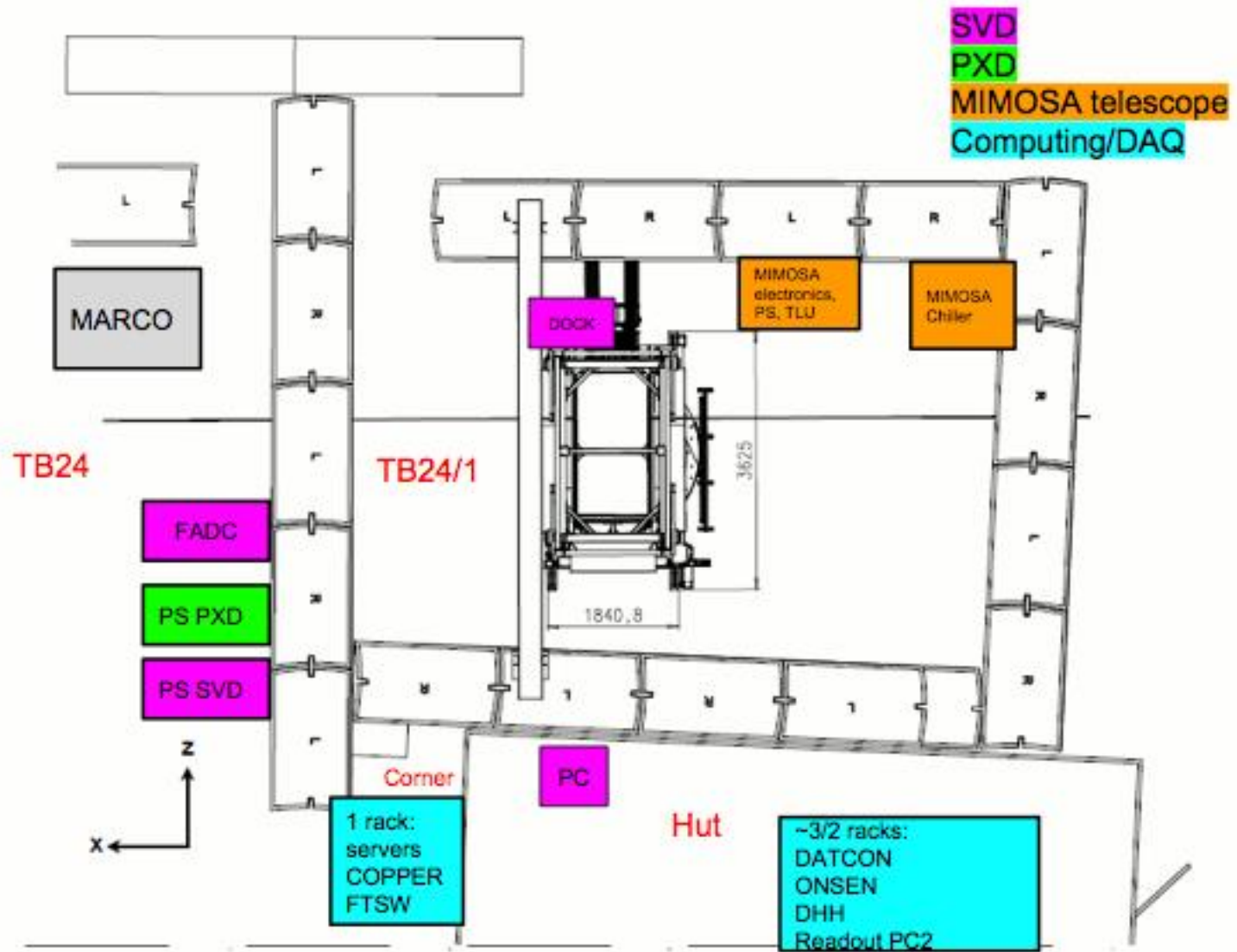
- ONSEN+DHH currently @ DESY
- New firmware to allow the integration of the full read-out chain with DHH/DHHC.
- APV25-FADC-FTB-DATCON → Result of last week Vienna test
- Next week: DATCON-ONSEN-DHHC

See Sören's slides for details

# Mechanics and Cooling

- MARCO in TB24 connected to dummy heat load
- Pressure test ongoing; interlock logic OK
- Installation of the transfer lines scheduled by today
- Rail system into PCMAG ready

# General Layout



# MARCO & CO<sub>2</sub> Distributor in TB24

MARCO



Dummy Heater

Distributor

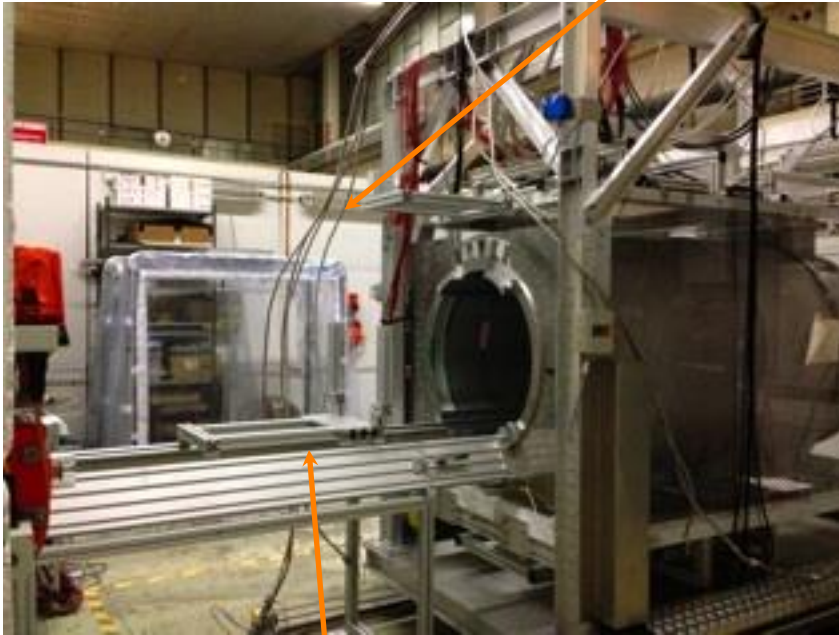


Transfer lines

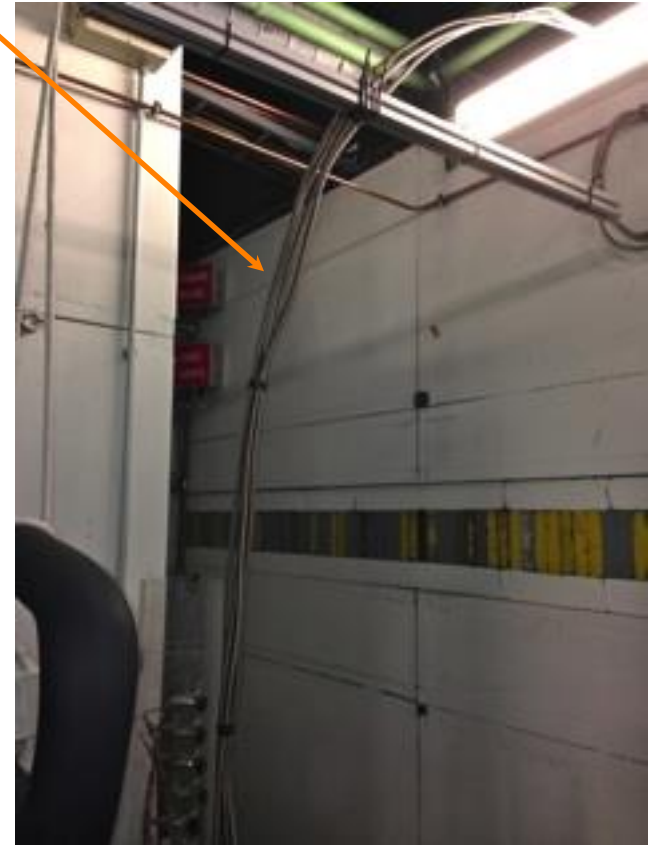


# Transfer Lines

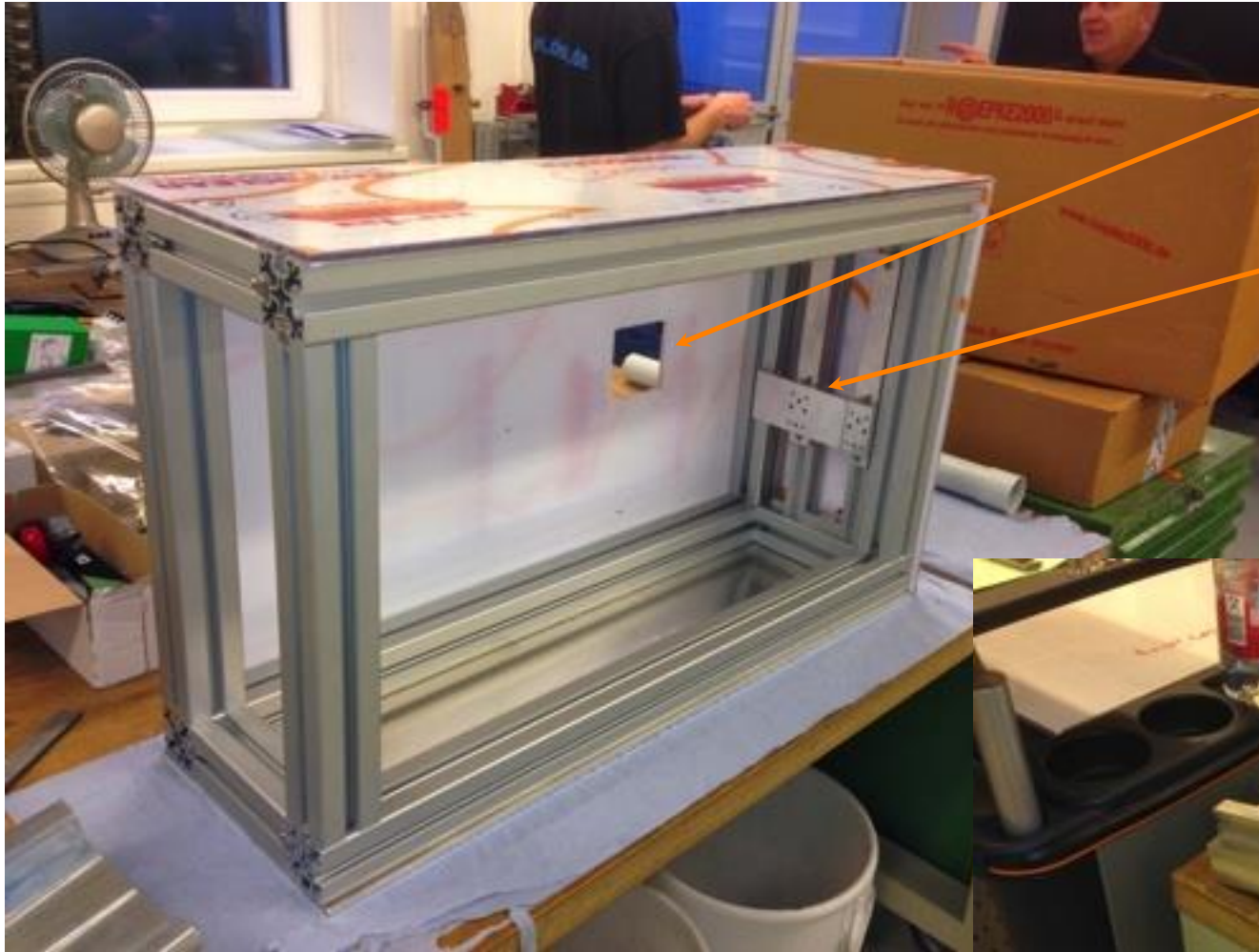
Coaxial CO<sub>2</sub> transfer lines



Movable support frame



# Dry Volume for PXD/SVD



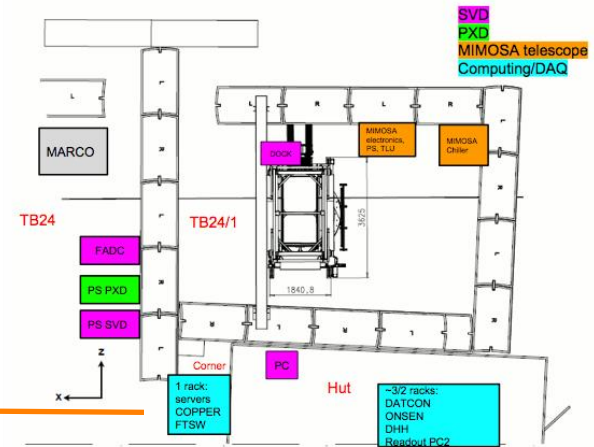
Window for Beam

Adjustable supports for  
SVD / PXD

Support for one arm of  
EUEDET Telescope



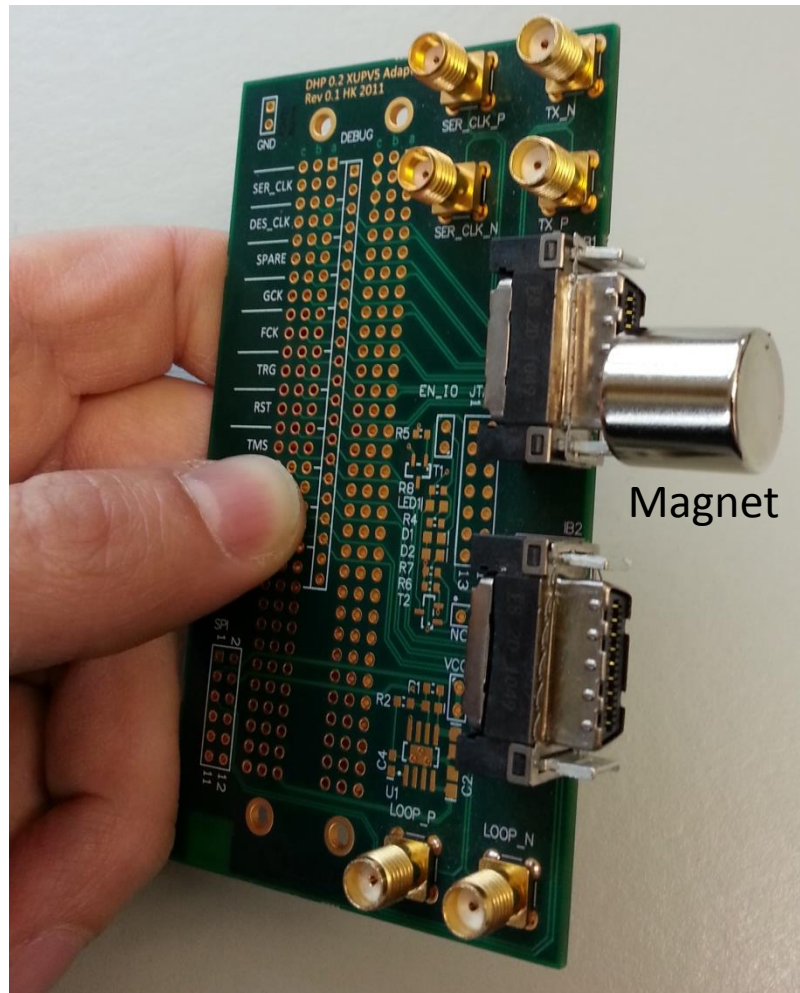
# DAQ Rack



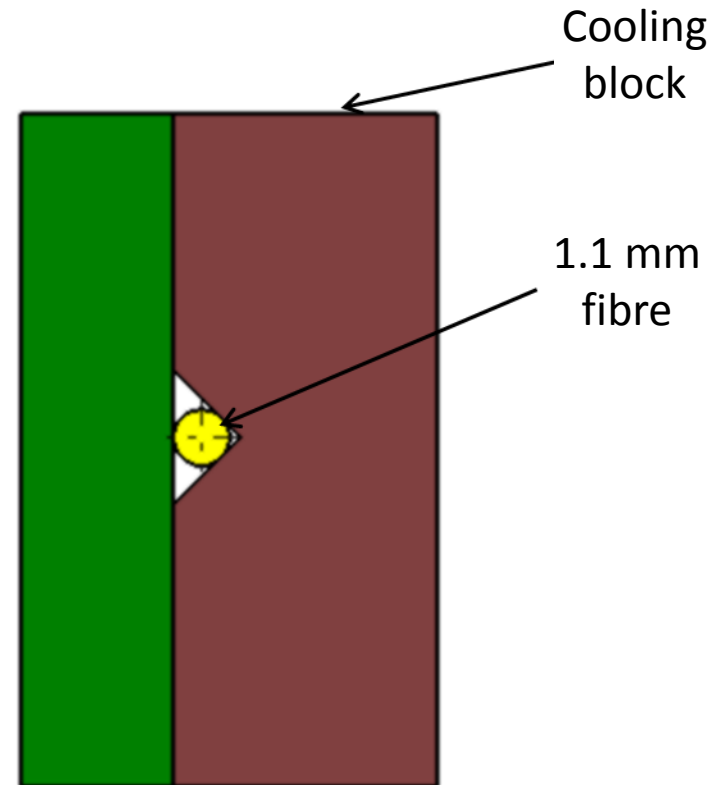
All connections are working



# Open Issues



Magnetic connectors



Temperature control cooling block (where)  
+ **backup** (Pt100) ?

# Safety Instructions

Please  
register!

## Current registrants (19)

|  name | institution                   | city                | country/region |
|----------------------------------------------------------------------------------------|-------------------------------|---------------------|----------------|
| CAMPBELL, Alan                                                                         | DESY                          | Hamburg             | GERMANY        |
| FERBER, Torben                                                                         | DESY                          | Hamburg             | GERMANY        |
| HIGUCHI, Takeo                                                                         | University of Tokyo           | Kashiwa             | JAPAN          |
| HIGUCHI, Takeo                                                                         | University of Tokyo           | Kashiwa             | JAPAN          |
| ITO, Ryosuke                                                                           | KEK                           | Tsukuba             | JAPAN          |
| Mr. KONNO, Tomoyuki                                                                    | Tokyo Metropolitan University | Hachiooji-si, Tokyo | JAPAN          |
| KÜHN, Wolfgang                                                                         | JLU Giessen                   | Giessen             | GERMANY        |
| LANGE, Sören                                                                           | Giessen                       | Giessen             | GERMANY        |
| LEVIT, Dmytro                                                                          | TU München                    | München             | GERMANY        |
| LOBODZINSKI, Bogdan                                                                    | DESY                          | Hamburg             | GERMANY        |
| MARINAS, Carlos                                                                        | University of Bonn            | Bonn                | GERMANY        |
| Dr. MOSER, Hans-Günther                                                                | MPI für Physik                | Munich              | GERMANY        |
| NAKAO, Mikihiro                                                                        | KEK                           | Tsukuba, Ibaraki    | JAPAN          |
| Dr. SCHLÜTER, Tobias                                                                   | LMU München                   | München             | GERMANY        |
| SPRUCK, Björn                                                                          | Uni Giessen                   | Gießen              | GERMANY        |
| Dr. SUZUKI, Soh                                                                        | KEK                           | Tsukuba             | JAPAN          |
| Mr. VALENTAN, Manfred                                                                  | MPP                           | Munich              | GERMANY        |
| YAMADA, Satoru                                                                         | IPNS, KEK                     | Tsukuba             | JAPAN          |
| YASHCHENKO, Sergey                                                                     | DESY                          | Hamburg             | GERMANY        |

Remote safety instruction course possible

↳ Mandatory for entering the experimental area



# Test Beam Manpower

- SlowControl → M. Ritzert, Th. Röder
- Env. Sensors → I. Vila, D. Moya

2<sup>nd</sup> to 5<sup>th</sup> January

- Hybrid6.0 → F. Lütticke, C. Marinas, F. Müller

From 3<sup>rd</sup> January

- ONSEN → Th. Gessler, S. Lange, D. Münchow, B. Spruck
- DHH → I. Konorov, D. Levit
- DATCON → M. Schnell

From 3<sup>rd</sup> January  
Laboratory

- Power Supply → S. Rummel t.b.c.

- DQM → T. Schlüter, M. Boronat, F. Wilk

From 13<sup>th</sup> January

A. Campbell, K. Gadow, C. Niebuhr, T. Ferber, R. Stever, S. Yashchenko